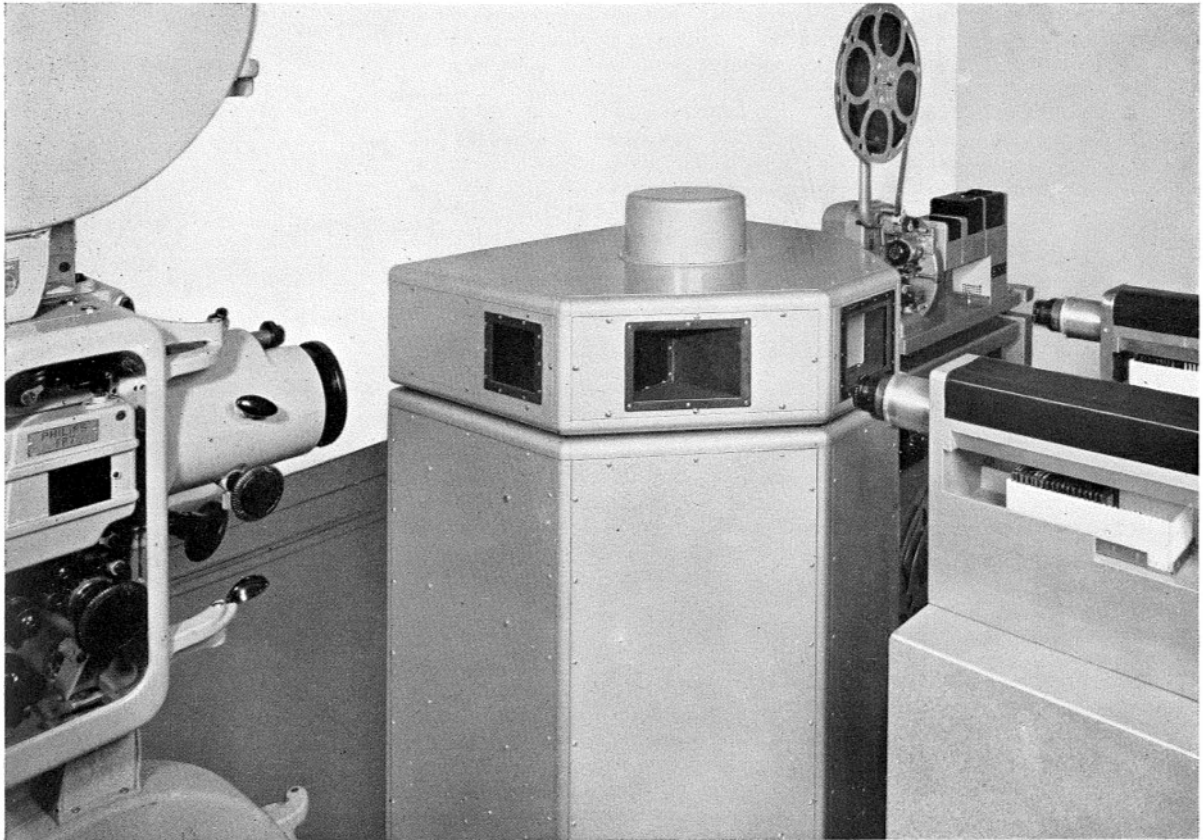




## Vidicon Telecine Channel Type BD 888

(MOVING MIRROR MULTIPLEXER)



8196

THIS telecine channel provides all the requirements of the most discriminating operators and uses the Type BD 872 moving-mirror multiplexer, the Type BD 896 Vidicon Telecine Camera, with scatter compensation circuits, together with a well-chosen series of projectors all using the Marconi Type 5498 lamphouse. Sound facilities are also excellent and provide automatic sound level control if required.

Operational efficiency has been considered in the design and the floor space required is quite small. In particular the control consoles (which match those of the camera channels) can be grouped together very easily for centralized control.

A colour version is also available and conversion to colour involves the minimum obsolescence.

### Features

- Optical preview of next source.
- Four-input multiplexer suitable for monochrome or colour.
- Advanced-design projectors with automatic light control.
- Automatic sound level control available.
- Component layout suitable for grouping.
- Full remote control facilities available, suitable for automatic operation.

### EQUIPMENT

#### Optical Multiplexer Type BD 872

This has four inputs arranged in two pairs with a pair of crossed mirrors, mounted one above the other and silvered on both sides, used to deflect the light to the camera and preview screen. Vertical movement of the mirrors gives a rapid 'wipe' effect on the picture and brings the 'preview' source into 'transmission'. Auxiliary contacts switch sound outputs at the same time.

Type BD 896 Vidicon Telecine Camera mounts inside the pedestal of the multiplexer.

The optical system has been chosen carefully to ensure maximum efficiency and it is also suitable for colour using Type BD 877 Colour Vidicon Film Channel. Type BD 896 Vidicon Telecine Camera is described on page 61.

### Lamphouse Type 5498

A special lamphouse is used on the projectors and has provision for automatic light control. This takes the form of a shutter in the light path, controlled by a small meter-type movement. This permits the lamp to be operated at constant colour and temperature while giving rapid control of the light level to compensate for changes in film density. A unit is available additionally which controls the associated shutters to maintain constant peak-white vision output, thus eliminating the continuous riding of telecine controls.

### 16 mm Telecine Projector Type 6173

This is a modified version of the Philips Type EL 5000 projector which is one of the few 16 mm projectors using an intermittent film drive.

Marconi Type 5065 Sound Amplifier is used, with inputs for optical, magnetic and external sources and with a remotely variable gain stage to which automatic sound level control can be applied as an additional facility. This unit also has an associated exciter lamp and power supply.

The standard projector has both a magnetic and an optical head and this latter can be focused rapidly to each side of the film to deal with normal or reversal film.

The projector is mounted with a heavy metal base on a substantial metal pedestal which contains the sound amplifier, power unit and local control panel. Spool capacity is 4000 ft (20.5 in. spool dia.) and provision is made for a test loop up to approx. 14 ft long. The pedestal also contains interlock motors where necessary.

Three editions of this projector are available. Type 6173A has 50 c/s synchronous motor drive, Type 6173B has, in addition, a GEC torque motor for interlock, and the Type 6173C has the additional motor and interlock generator for the BTH interlock system. The type of drive will depend upon the external sound facilities provided.

The standard projector will show still frames but a special version is required for backwards operation.

### 35 mm Telecine Projector Type 6174

A modified version of the Philips Type FP 7 projector using a special lamphouse with provision for automatic light control. Drive control and sound channels are as for the 16 mm projector. Additional modifications are made to shutter, lens and mounting base for telecine operation.

A heavy cast pedestal supports the projector with the standard lens centre height of 48 in. Spool capacity is 2000-3000 ft as standard or 4000-6000 ft to special order.

As in the case of the Type 6173 there are three editions of this projector having the same facilities as those of the former.

### Slide Projector Type BD 894

Described on page 90 and affords automatic selection of 2 x 2 in. slides.

### Opaque Caption Unit Type BD 897

Described on page 90. This carries twelve card frames for taking opaque material.

### Sound Follower Units

For the reproduction of unmarried magnetic tracks a variety of proprietary equipments are available for both 16 mm and 35 mm sprocketed film. The tabulated types are among those which can be used with the BD 888 Telecine. Appropriate interlock systems must be chosen and accessory equipment will usually include interlock panels, etc.

### SCHEDULE OF EQUIPMENT

While the equipment is flexible in design and a wide range of different assemblies are possible, the following is a basic schedule for a typical Type BD 888A assembly.

(a) 1 BD 896 Vidicon Camera Channel comprising:

- 1 Camera head
- 1 Camera control unit } rack mounted
- 1 Power supply unit }
- 1 Ventilated mounting tray
- 1 Camera control panel (mounted in well of console)
- 1 Camera cable
- 1 Camera lens, 5 cm.
- (b) 1 BD 872B Optical Multiplexer incorporating camera mounting, relay power supply, relay mounting and relay control assembly.
- (c) 1 16 mm Film Projector Type 6173A with 50 c/s synchronous motor, sound amplifier and local control panel.
- (d) 1 35 mm Film Projector Type 6174A with 50 c/s synchronous motor, sound amplifier and local control panel.
- (e) 1 L.H. Slide Projector Type BD 894.
- (f) 1 R.H. Slide Projector Type BD 894.
- (g) 1 Pedestal for slide projectors.
- (h) 1 set projector lenses and filters.
- (j) 1 set spare slide magazines.
- (k) 1 set spools.
- (l) 1 set test film and slides.
- (m) 2 Studio Consoles Type 4785.
- (n) 1 Picture and Waveform Monitor Type BD 873.
- (o) 1 Telecine sound panel comprising:
  - 1 Frame Type 2566
  - 1 Loudspeaker Panel Type 4493
  - 1 Blank panel
  - 1 Telecine sound Control Panel Type 4495.
- (p) 1 set connectors for interconnecting cables.

Remote control facilities can be added as follows:

- (q) 1 \*Dual Telecine Remote Control Panel Type 2765 (mounted in well of console).
- (r) 1 Remote Slide Projector Control Panel, Dual Fader with sequential selection.
- (s) 1 Remote Slide Projector Control Panel, Dual Fader with random selection.
- (t) 1 Remote Slide Projector Control Panel, with random selection (used together with (s) to give random selection of 60 slides).

\* A second telecine sound control panel can be accommodated in this console.

Type	Film	Track	Capacity	Interlock
Westrex	35 mm			
Westrex Recorder/ Reproducer Unit	16 mm	Single-track	1200 ft	GEC motor

### Marconi

Marconi's Wireless Telegraph Company Limited  
 Marconi House, Chelmsford, Essex  
 Telephone: Chelmsford 3221 • Telex: 1953  
 Telegrams: Expanse Chelmsford Telex